

## CLAIMS

Having thus described the aforementioned invention, we claim:

1        1. A heat therapy blanket for communicating heated air toward a  
2 patient to prevent or treat hypothermia, said heat therapy blanket  
3 comprising:

4              a first sheet defining first and second sides and proximal and distal  
5 ends;

6              a second sheet secured to said first sheet at a plurality of securement  
7 regions, said plurality of securement regions being configured to define a  
8 supply manifold, at least one supply duct, a return manifold, and at least  
9 one return duct, said second sheet extending away from each of said first  
10 and second sides and said proximal and distal end of said first sheet to  
11 define a skirt for draping over the patient to define a discrete volume of air  
12 under said heat therapy blanket and surrounding the patient whereby a  
13 substantial portion of the heated air communicated toward the patient is  
14 contained in said discrete volume of air;

15              a supply inlet carried by said first sheet and adapted to releasably  
16 connect a supply hose to said supply manifold;

17              a return outlet carried by said first sheet and adapted to releasably  
18 connect a return hose to said return duct, whereby heated air is introduced  
19 into said supply manifold via the supply hose, through said at least one  
20 supply duct, through said return manifold, through said at least one return  
21 duct, and through said outlet hose; and

22              a heat source for collecting, heating and directing ambient air toward  
23 the patient through said second sheet.

1        2. The heat therapy blanket of Claim 1 wherein said plurality of  
2 securement regions includes:

3              a first securement region being defined about a perimeter of said first  
4 sheet, said first securement region including first and second longitudinal

5 regions disposed along opposing sides of said first sheet and first and  
6 second lateral regions disposed at a proximal end and a distal end of said  
7 first sheet, respectively, each of said longitudinal regions and said lateral  
8 regions being connected in an end-to-end fashion;

9           a second securement region including third and fourth longitudinal  
10 regions and a third lateral region, said third and fourth longitudinal regions  
11 being disposed between said first and second longitudinal regions of said  
12 first securement region, said third lateral region being positioned in end-to-  
13 end fashion at a proximal end of said third and fourth longitudinal regions,  
14 said return duct being defined between said first and third longitudinal  
15 regions, said second and fourth longitudinal regions, and said first and  
16 third lateral regions; and

17           a third securement region including at least one fifth longitudinal  
18 region defined between said third and fourth longitudinal regions defined by  
19 said second securement region, said supply manifold being defined between  
20 said third lateral region of said second securement region and a proximal  
21 end of said at least one fifth longitudinal region, said at least one supply  
22 duct being defined between successive pairs of said third, fourth and fifth  
23 longitudinal regions, and said return manifold being defined between a  
24 distal end of said third, fourth and fifth longitudinal regions and said  
25 second lateral region.

1           3. The heat therapy blanket of Claim 1 further comprising a  
2 humidifier in communication with said heat source for controlling the  
3 moisture in air being heated and directed through said second sheet.

1           4. The heat therapy blanket of Claim 1 wherein said first sheet is  
2 fabricated from an air-impermeable material whereby heated air is  
3 substantially prevented from escaping to the surrounding environment.

1       5.     The heat therapy blanket of Claim 1 wherein said second sheet  
2 is fabricated from an air-impermeable material, said second sheet defining a  
3 plurality of openings for communicating heated air toward the patient.

1       6.     The heat therapy blanket of Claim 1 wherein said second sheet  
2 is fabricated from an air-permeable material whereby heated air is  
3 communicated through said second sheet toward the patient.

1       7.     A heat therapy blanket for communicating heated air toward a  
2 patient to prevent or treat hypothermia, said heat therapy blanket  
3 comprising:

4              a first sheet defining first and second sides and proximal and distal  
5 ends, said first sheet being fabricated from an air-impermeable material  
6 whereby heated air is substantially prevented from escaping to the  
7 surrounding environment;

8              a second sheet secured to said first sheet at a plurality of securement  
9 regions, said plurality of securement regions being configured to define a  
10 supply manifold, at least one supply duct, a return manifold, and at least  
11 one return duct, said second sheet extending away from each of said first  
12 and second sides and said proximal and distal end of said first sheet to  
13 define a skirt for draping over the patient to define a discrete volume of air  
14 under said heat therapy blanket and surrounding the patient whereby a  
15 substantial portion of the heated air communicated toward the patient is  
16 contained in said discrete volume of air, said plurality of securement regions  
17 including:

18              a first securement region being defined about a perimeter of  
19 said first sheet, said first securement region including first and  
20 second longitudinal regions disposed along opposing sides of said first  
21 sheet and first and second lateral regions disposed at a proximal end  
22 and a distal end of said first sheet, respectively, each of said

23       longitudinal regions and said lateral regions being connected in an  
24       end-to-end fashion;

25               a second securement region including third and fourth  
26       longitudinal regions and a third lateral region, said third and fourth  
27       longitudinal regions being disposed between said first and second  
28       longitudinal regions of said first securement region, said third lateral  
29       region being positioned in end-to-end fashion at a proximal end of  
30       said third and fourth longitudinal regions, said return duct being  
31       defined between said first and third longitudinal regions, said second  
32       and fourth longitudinal regions, and said first and third lateral  
33       regions; and

34               a third securement region including at least one fifth  
35       longitudinal region defined between said third and fourth longitudinal  
36       regions defined by said second securement region, said supply  
37       manifold being defined between said third lateral region of said  
38       second securement region and a proximal end of said at least one fifth  
39       longitudinal region, said at least one supply duct being defined  
40       between successive pairs of said third, fourth and fifth longitudinal  
41       regions, and said return manifold being defined between a distal end  
42       of said third, fourth and fifth longitudinal regions and said second  
43       lateral region;

44               a supply inlet carried by said first sheet and adapted to releasably  
45       connect a supply hose to said supply manifold;

46               a return outlet carried by said first sheet and adapted to releasably  
47       connect a return hose to said return duct, whereby heated air is introduced  
48       into said supply manifold via the supply hose, through said at least one  
49       supply duct, through said return manifold, through said at least one return  
50       duct, and through said outlet hose; and

51               a heat source for collecting, heating and directing ambient air toward  
52       the patient through said second sheet.

1           8.     The heat therapy blanket of Claim 7 further comprising a  
2     humidifier in communication with said heat source for controlling the  
3     moisture in air being heated and directed through said second sheet.

1           9.     The heat therapy blanket of Claim 7 wherein said second sheet  
2     is fabricated from an air-impermeable material, said second sheet defining a  
3     plurality of openings for communicating heated air toward the patient.

1           10.    The heat therapy blanket of Claim 7 wherein said second sheet  
2     is fabricated from an air-permeable material whereby heated air is  
3     communicated through said second sheet toward the patient.